embodiment of a carbon nano particulate, being fullerene, added to a refrigerating machine oil, but also nano-sized materials, such as carbon nanotubes and graphite.

【Industrial Applicability】

Compared to conventional refrigerating machine oil, the refrigerating machine oil of the present invention for a compressor noticeably increases abrasion resistance, ability to withstand extreme pressures, and heat conductivity, and therefore has a wide industrial applicability.

【CLAIMS】

【Claim 1】

A refrigerating machine oil for a compressor comprising:
a lubricating oil applied on frictional surfaces to reduce friction thereon; and
less than 1.0 wt% of carbon nano particulate.

【Claim 2】

The refrigerating machine oil according to claim 1, wherein the percentage by weight of the carbon nano particulate is less than 0.1%.

【Claim 3】

The refrigerating machine oil according to claim 1 or 2, wherein the carbon nano particulate is C_{60} or C_{70} fullerene.

【Claim 4】

The refrigerating machine oil according to claim 1 or 2, wherein the carbon nano particulate is a carbon nanotube particulate.

【Claim 5】

The refrigerating machine oil according to claim 1 or 2, wherein the carbon nano particulate is graphite.

【Claim 6】

The refrigerating machine oil according to claim 1, wherein the oil for a compressor is manufactured using an ultrasonic dispersion.

【ABSTRACT】

There is provided a refrigerating machine oil for a compressor. The oil includes a lubricating oil applied on frictional surfaces to reduce friction thereon and less than 1.0 wt% of a carbon nano particles.

【DRAWINGS】

【Figure 1】